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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	65050
First Inventor	Butterfield
Title	Apparatus and Method for Air-In-Line Detection
Express Mail Label No.	EV 130091467 US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Commissioner for Patents
Mail Stop Patent Application
P. O. Box 1450
Alexandria VA 22313-1450

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages **31**]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **9**]
5. Oath or Declaration [Total Pages **3**]
 - a. ☐ Newly executed (original or copy)
 - b. ☒ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. ☐ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ Paper
 - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☒ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: **08/933,709**

Prior application information: Examiner **J. Maynard**

Group / Art Unit: **3763**

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label

or ☐ Correspondence address below

(Insert Customer No. or Attach bar code label here)

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Registration No. (Attorney/Agent)

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Signature

Thomas A. Runk

Date

Aug. 5, 2003

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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September 5, 2003

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Attorney Docket No.: 026-0002-1

Transmitted herewith for filing is a New Patent Application as follows:

Inventor(s): Michael H. Perrott, Rex T. Baird, Yunteng Huang
Title: DIGITALLY-SYNTHESIZED LOOP FILTER CIRCUIT PARTICULARLY
USEFUL FOR A PHASE LOCKED LOOP

which is a ☐ Continuation
☒ Divisional
☐ Continuation-in-part (CIP)

of Prior Application No. 09/902,541 filed 07-10-2001.

Enclosed are:

- ☒ Application Data Sheet (3 page(s))
- ☐ Request and Certification under 35 U.S.C. 122(b)(2)(B)(i) (____ page(s))
- 41 Pages of Written Description (including Specification, Claims and Abstract)
- 19 Sheets of Drawings, ☒ Formal / ☐ Informal
- ☒ Declaration for Patent Application (4 pages)
 - ☒ Executed Copy from the above-identified Prior Application
 - ☐ Newly Executed
 - ☐ Unexecuted
- ☐ Preliminary Amendment (____ pages)
- ☐ Assignment of the Invention (____ pages, including Cover Sheet)
- ☒ Information Disclosure Statement (2 pages)
 - ☒ with Form(s) PTO 1449 (5 page(s)) and copies of n/a cited reference(s)
- ☒ Other: Check in the amount of \$894.00
- ☒ This Transmittal Letter (in duplicate) ☒ Return Postcard

In this New Patent Application,

- ☐ Please amend the specification of this New Patent Application by inserting, before the first line thereof, the following:
This application is a Continuation/Divisional/Continuation-in-part of co-pending Application No. _____ filed _____, the entirety of which is incorporated herein by reference.
- ☐ n/a
- ☐ Prior to calculating fees, please enter the above-identified Preliminary Amendment.
- ☐ Prior to calculating fees, please cancel claims: n/a.

New Patent Application Transmittal
 September 5, 2003
 RE: Attorney Docket No. 026-0002-1
 Page 2 of 2

FEE CALCULATION

	Number Filed	Number Extra	Rate	Fee
Basic Fee =				750.00
Total Claims	28 - 20	= 8	x \$18.00 =	144.00
Independent Claims	1 - 3	= 0	x \$84.00 =	0.00
Multiple Dependent Claims (if any) - \$280.00 fee				
Other:				
TOTAL FILING FEE				\$ 894.00

- ☐ Applicant is a Small Entity.
- ☒ A check is enclosed for the Total Filing Fee shown above.
- ☐ Please charge the Total Filing Fee shown above to Deposit Account: n/a.
- ☒ The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. § 1.16 or 1.17 that may be required during the pendency of this New Patent Application, and to similarly credit any overpayment, to Deposit Account: 50-0631.

CORRESPONDENCE ADDRESS

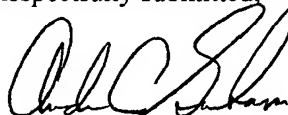
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Respectfully submitted,



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